

FIG. 1

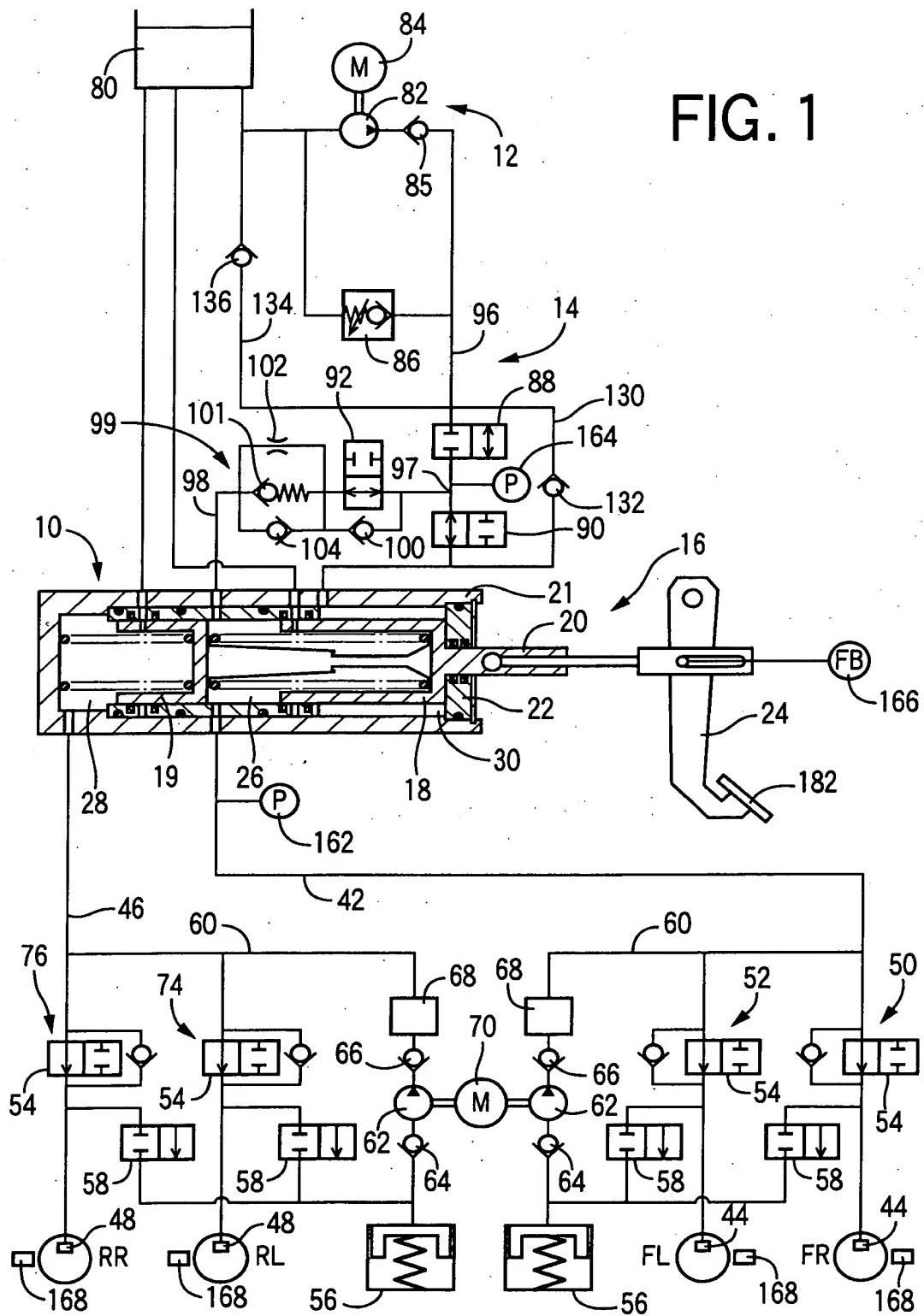


FIG. 2A

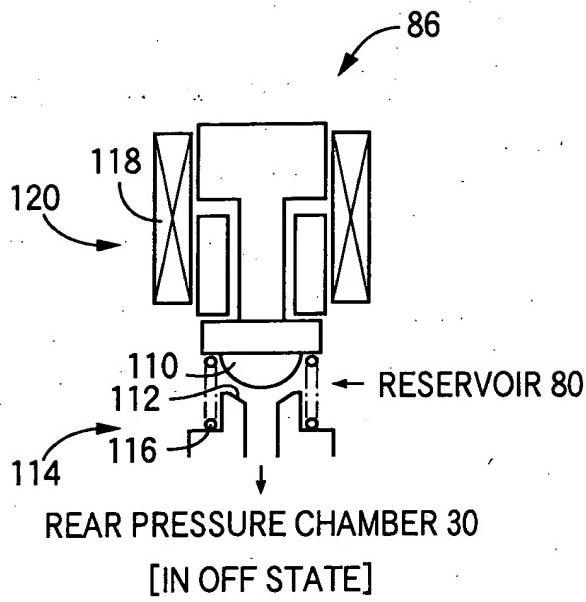
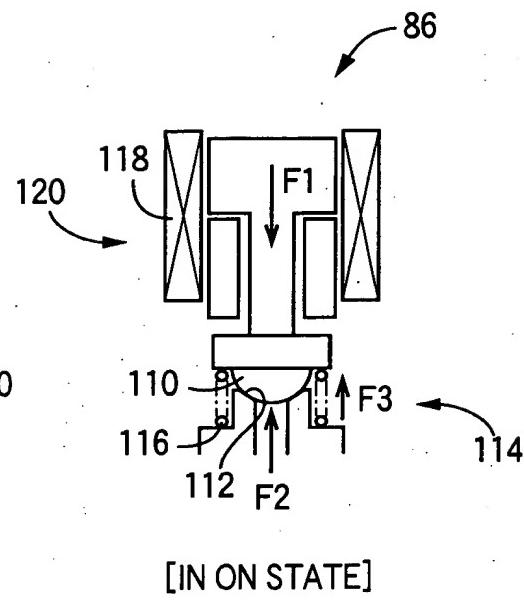


FIG. 2B



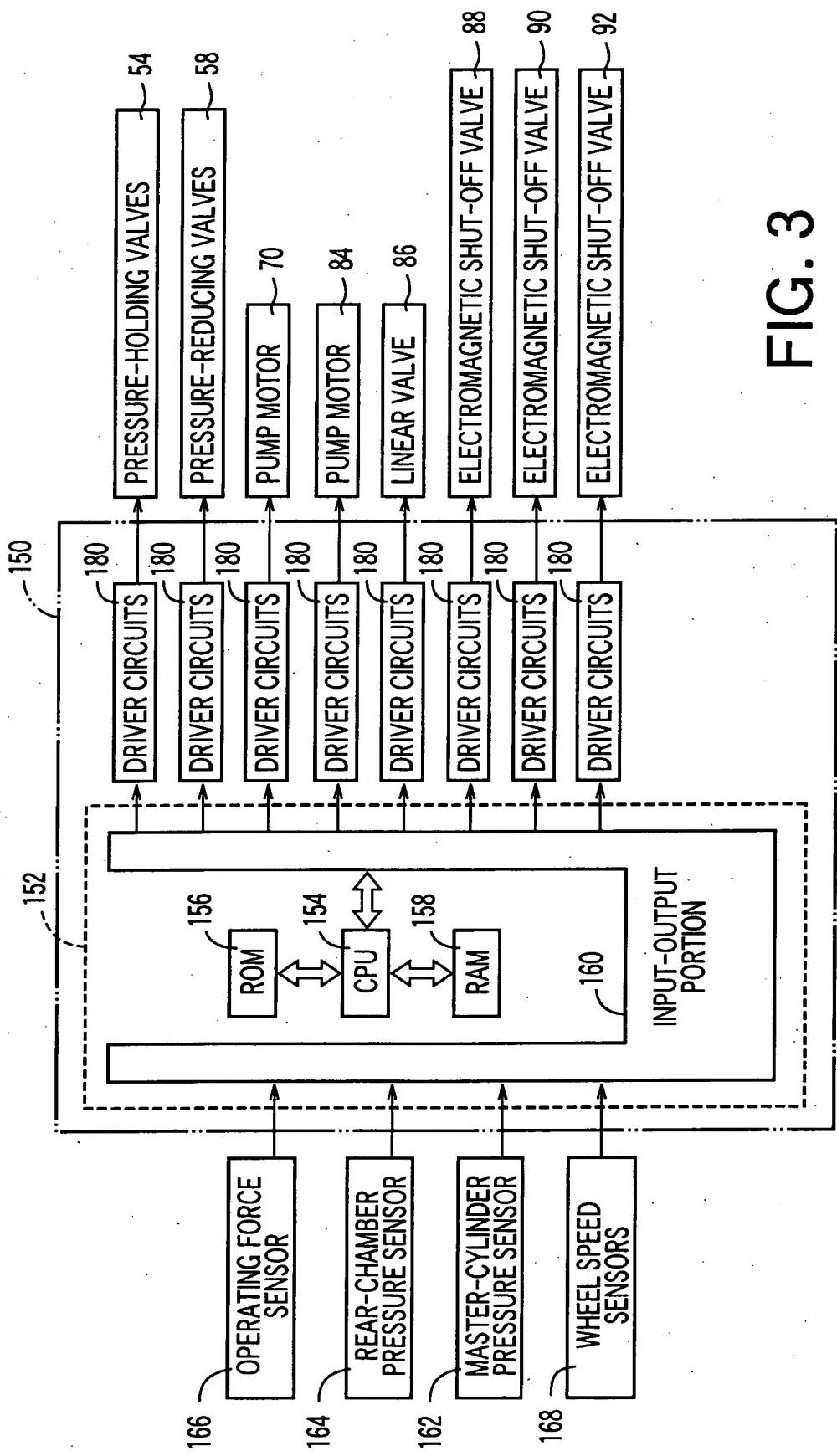
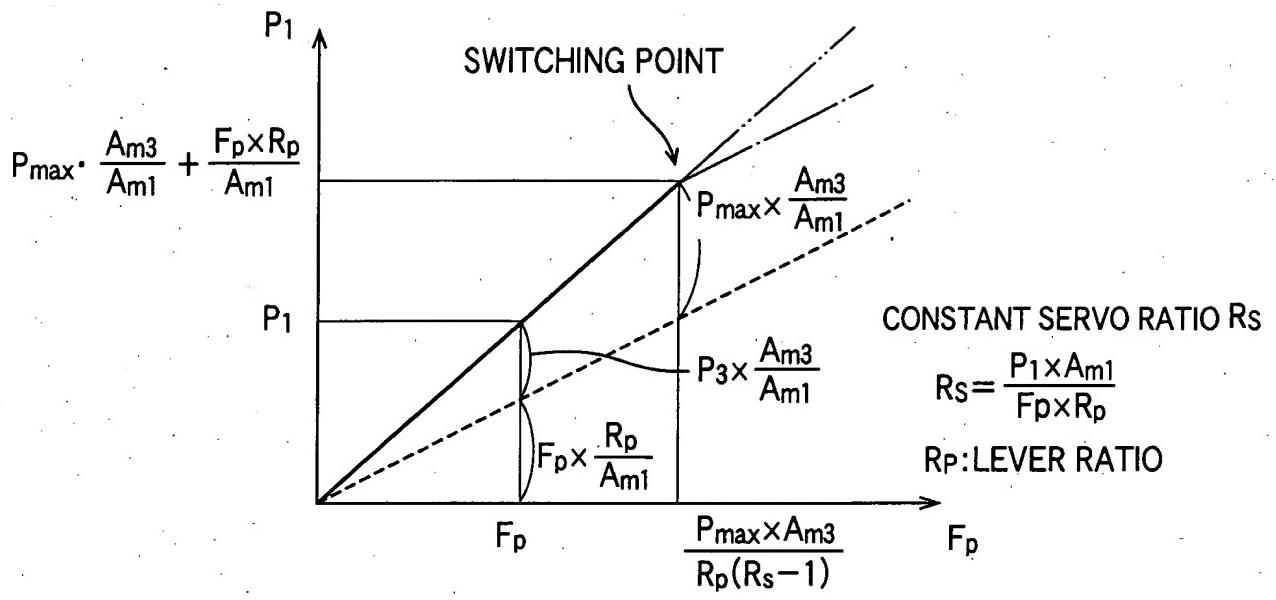


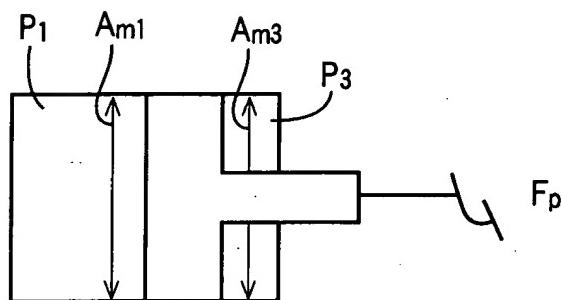
FIG. 3

FIG. 4



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FIG. 5



$$P_1 \times A_{m1} = P_3 \times A_{m3} + F_p \times R_p \quad \dots (1)$$

FIG. 6

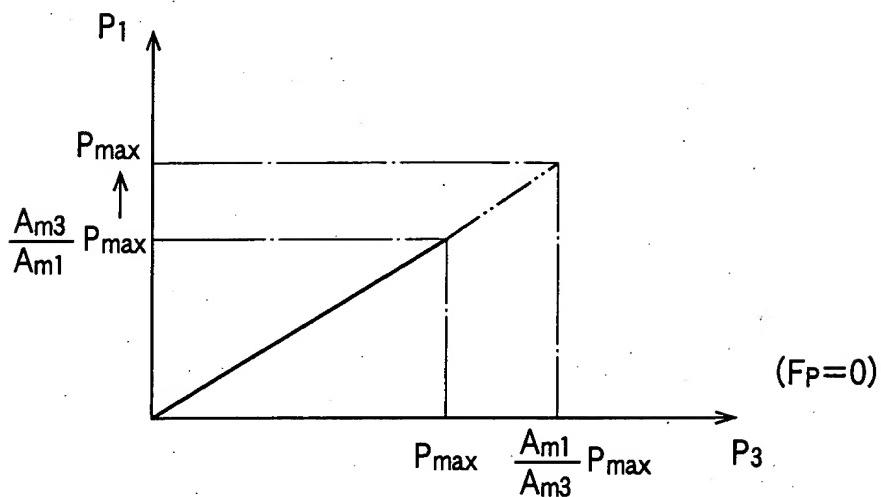
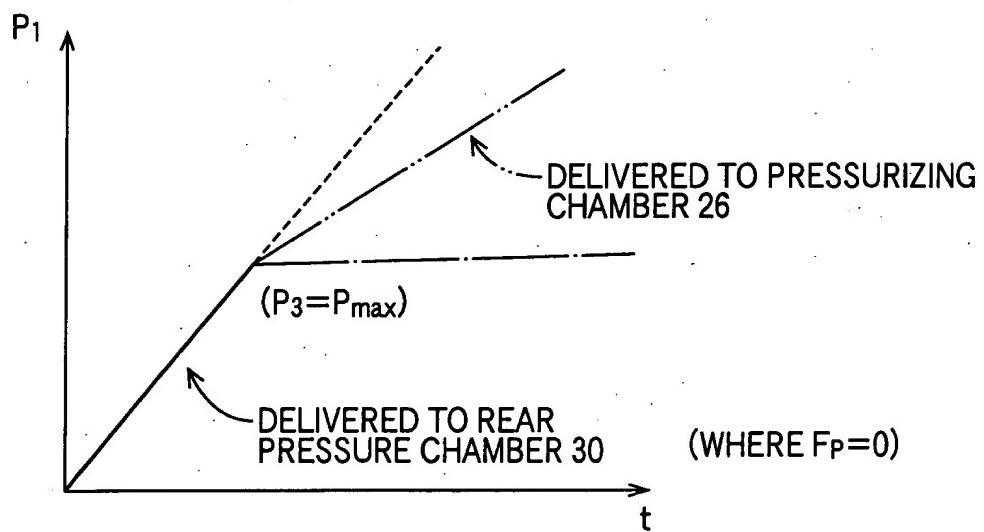


FIG. 7



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FIG. 8

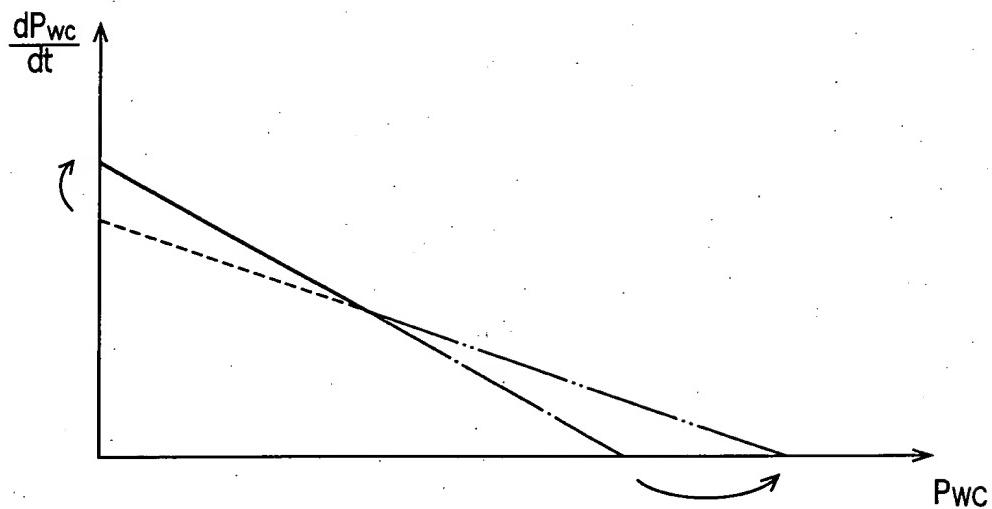


FIG. 9

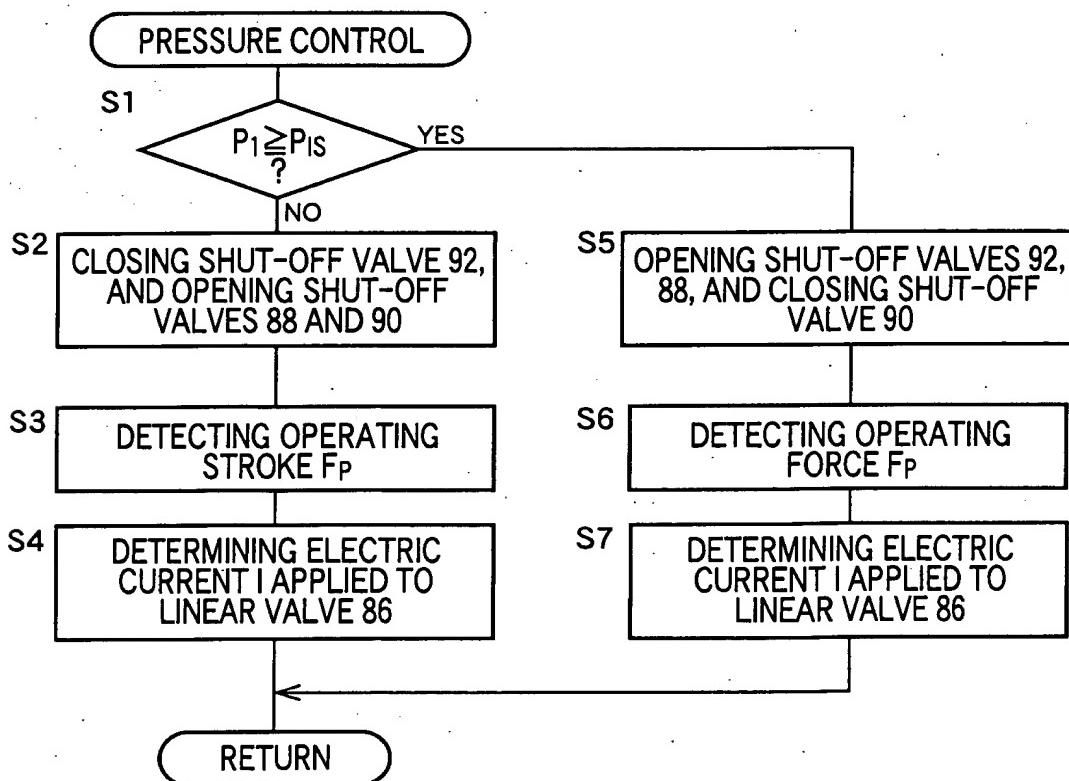


FIG. 10

	FIRST STATE	SECOND STATE
SHUT-OFF VALVE 88	OPEN	OPEN
SHUT-OFF VALVE 90	OPEN	CLOSED
SHUT-OFF VALVE 92	CLOSED	OPEN
RATE OF FLOW q_{wc} INTO BRAKE CYLINDER	$(A_{m1}/A_{m3}) q$	q
BRAKING PRESSURE P_{wc}	$(A_{m3}/A_{m1}) P_{(FP=0)}$	P

100-250-500-1000

FIG. 11

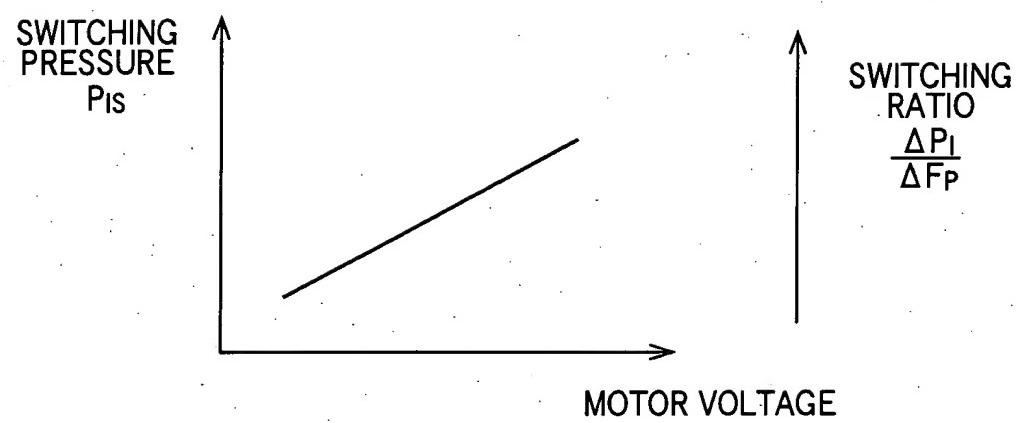


FIG. 12

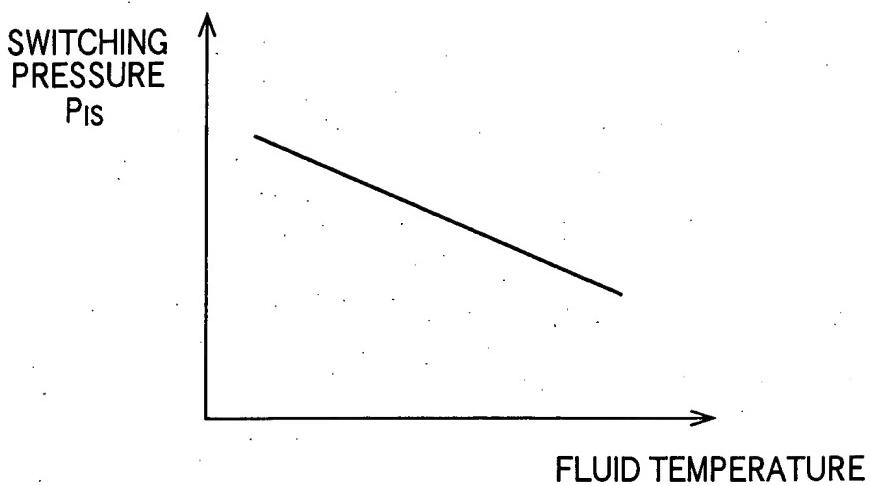
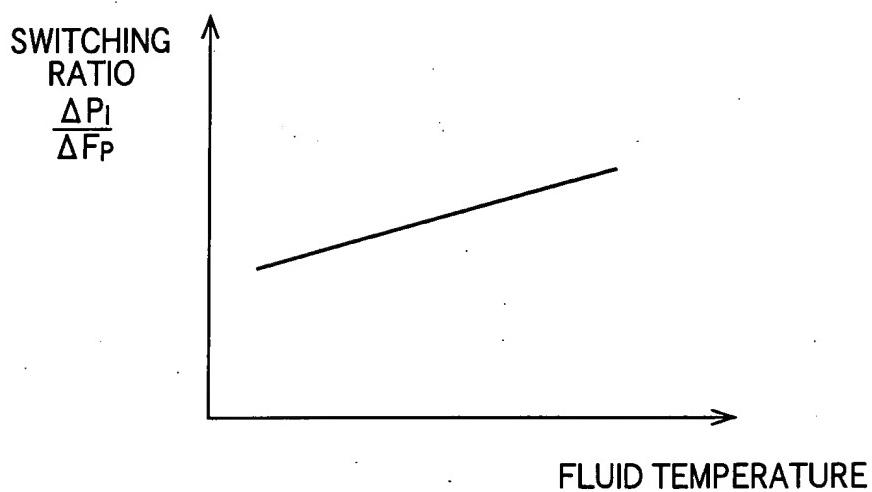


FIG. 13



100 200 300 400 500 600

FIG. 14

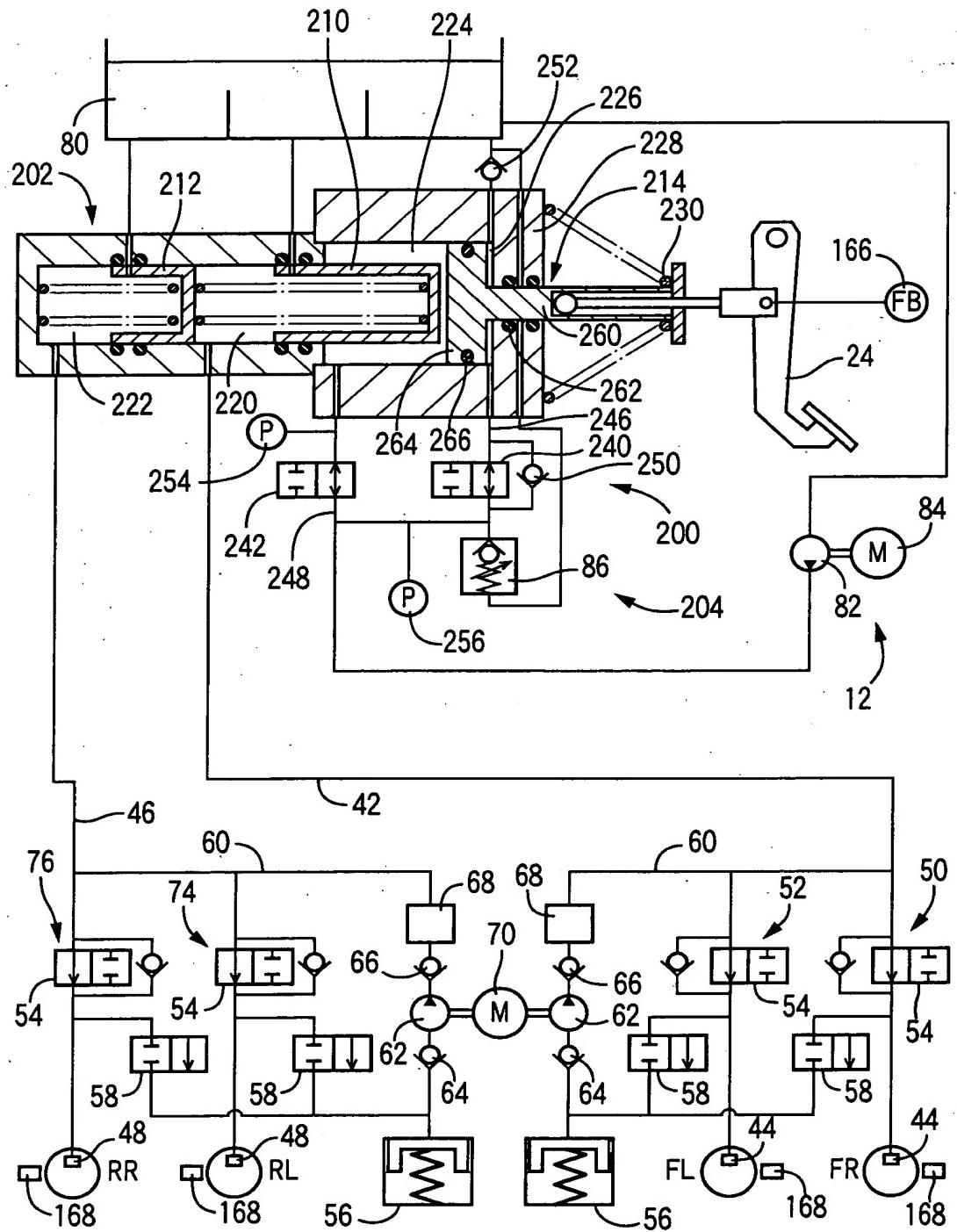
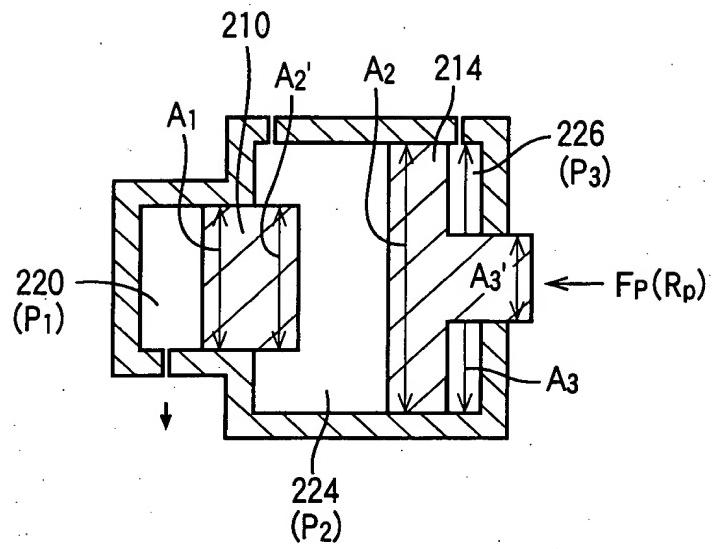


FIG. 15



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FIG. 16

	FIRST STATE	SECOND STATE
SHUT-OFF VALVE 240	OPEN	CLOSED
SHUT-OFF VALVE 242	CLOSED	OPEN
RATE OF FLOW q_{wc} INTO BRAKE CYLINDER	$(A_2/A_3) \cdot q \cdot (A_2 A_1/A_3 A_2') \cdot q$	$q \cdot (A_1/A_2') \cdot q$
BRAKING PRESSURE P_{wc}	$(A_3/A_2) \cdot P \cdot (A_3 A_2'/A_2 A_1) \cdot q$ ($F_P = 0$)	$P \cdot (A_2'/A_1) \cdot P$

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FIG. 17

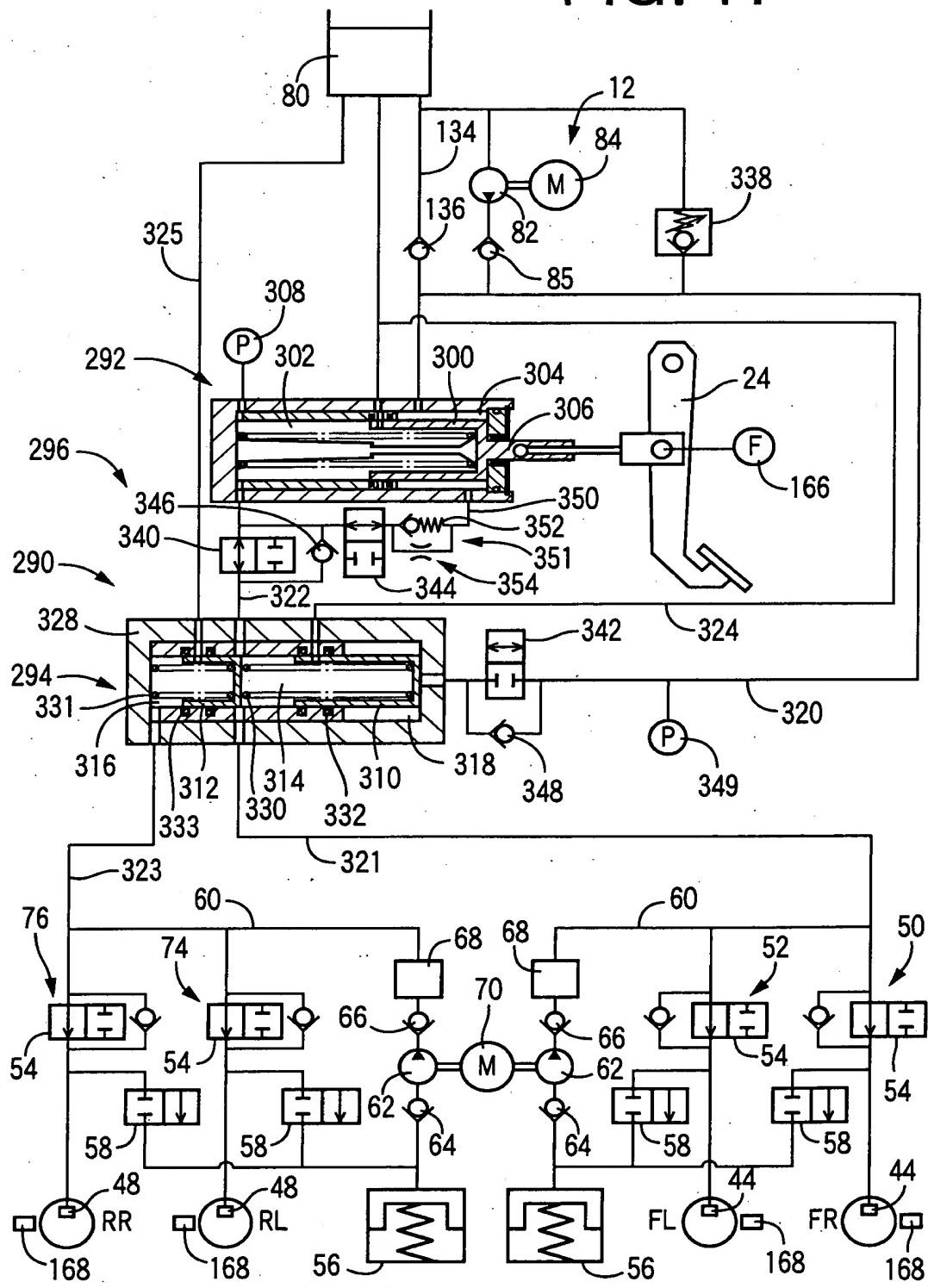


FIG. 18A

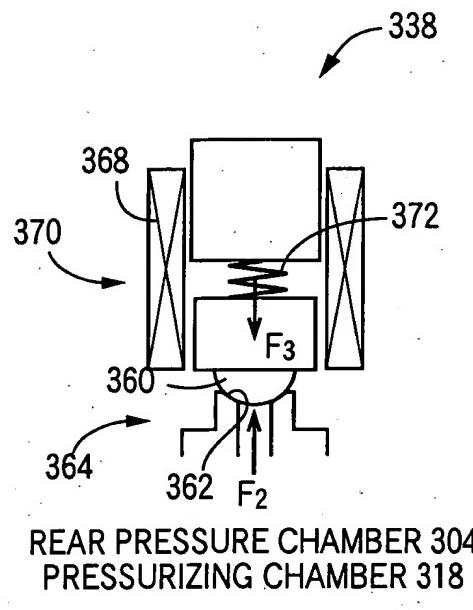
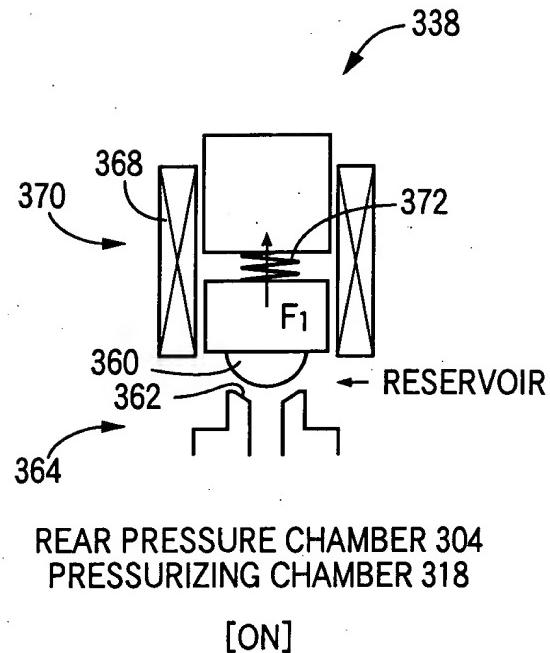


FIG. 18B

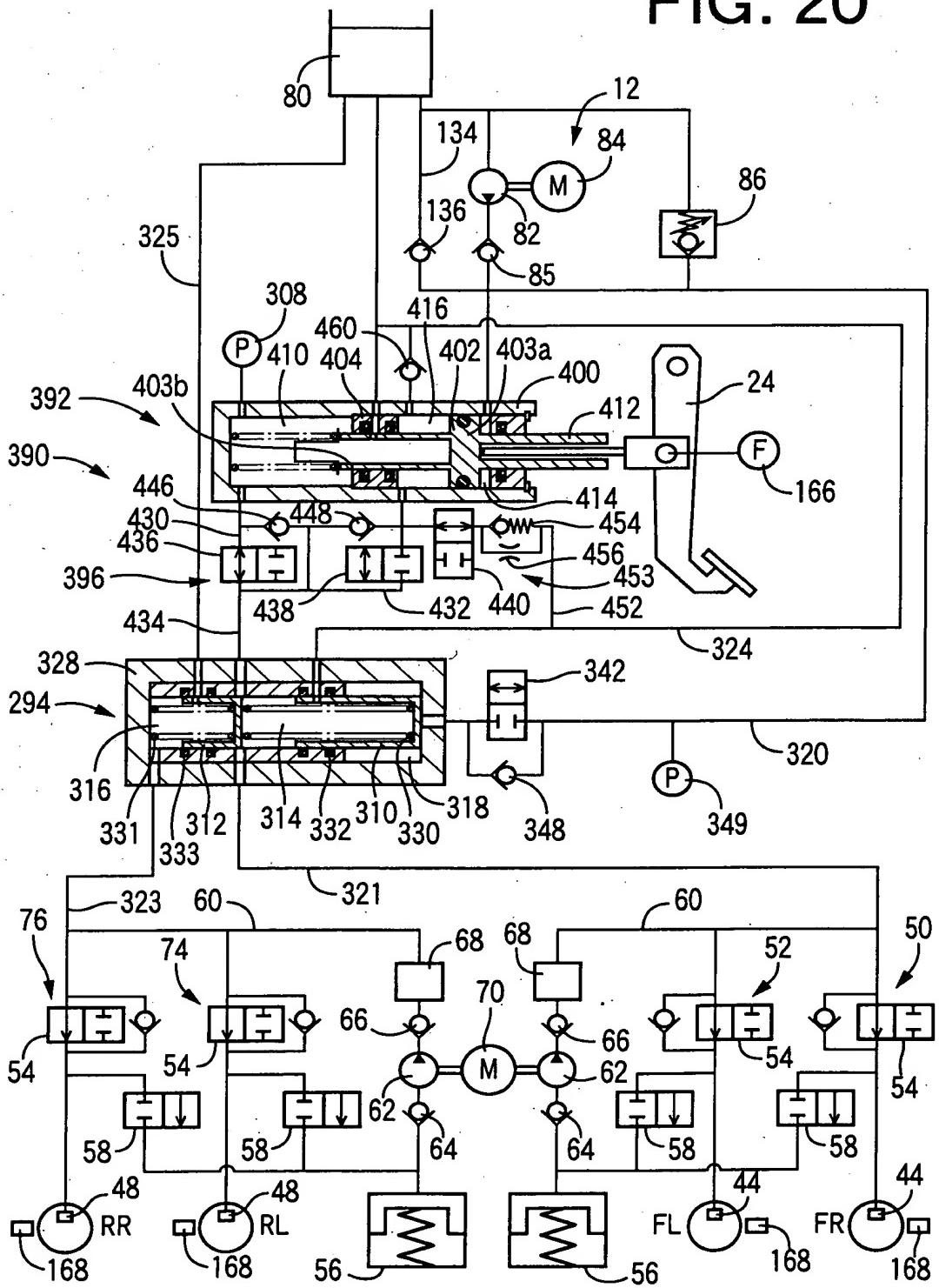


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FIG. 19

	FIRST STATE	SECOND STATE
SHUT-OFF VALVE 340	OPEN	CLOSED
SHUT-OFF VALVE 342	CLOSED	OPEN
SHUT-OFF VALVE 344	CLOSED	CLOSED
RATE OF FLOW INTO BRAKE CYLINDER	$(A_{m1}/A_{m3}) \cdot q$	q
BRAKING PRESSURE	$(A_{m3}/A_{m1}) \cdot P_{(FP=0)}$	P

FIG. 20



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FIG. 21

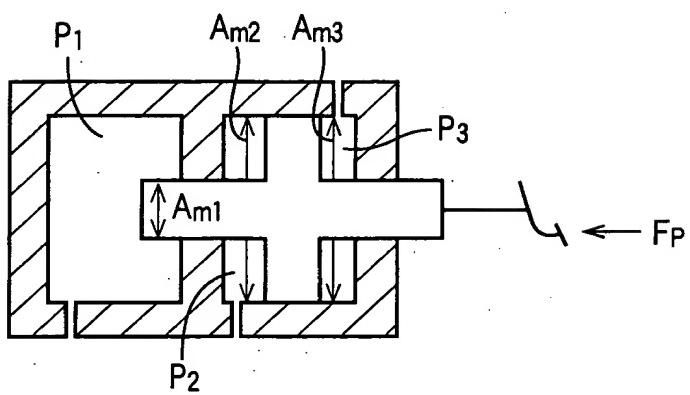


FIG. 22

	1 ST STATE	2 ND STATE	3 RD STATE
SHUT-OFF VALVE 436	OPEN	CLOSED	OPEN
SHUT-OFF VALVE 438	OPEN	CLOSED	CLOSED
SHUT-OFF VALVE 440	CLOSED	CLOSED	CLOSED
SHUT-OFF VALVE 342	CLOSED	OPEN	CLOSED
RATE OF FLOW INTO BRAKE CYLINDER	$\{(A_{m1} + A_{m2})/A_{m3}\} \cdot q$	q	$(A_{m1}/A_{m3}) \cdot q$
BRAKING PRESSURE	$(A_{m3} \cdot P)/(A_{m1} + A_{m2})$ (FP = 0)	p	$(A_{m3}/A_{m2} \cdot P)$ (FP = 0)

FIG. 23

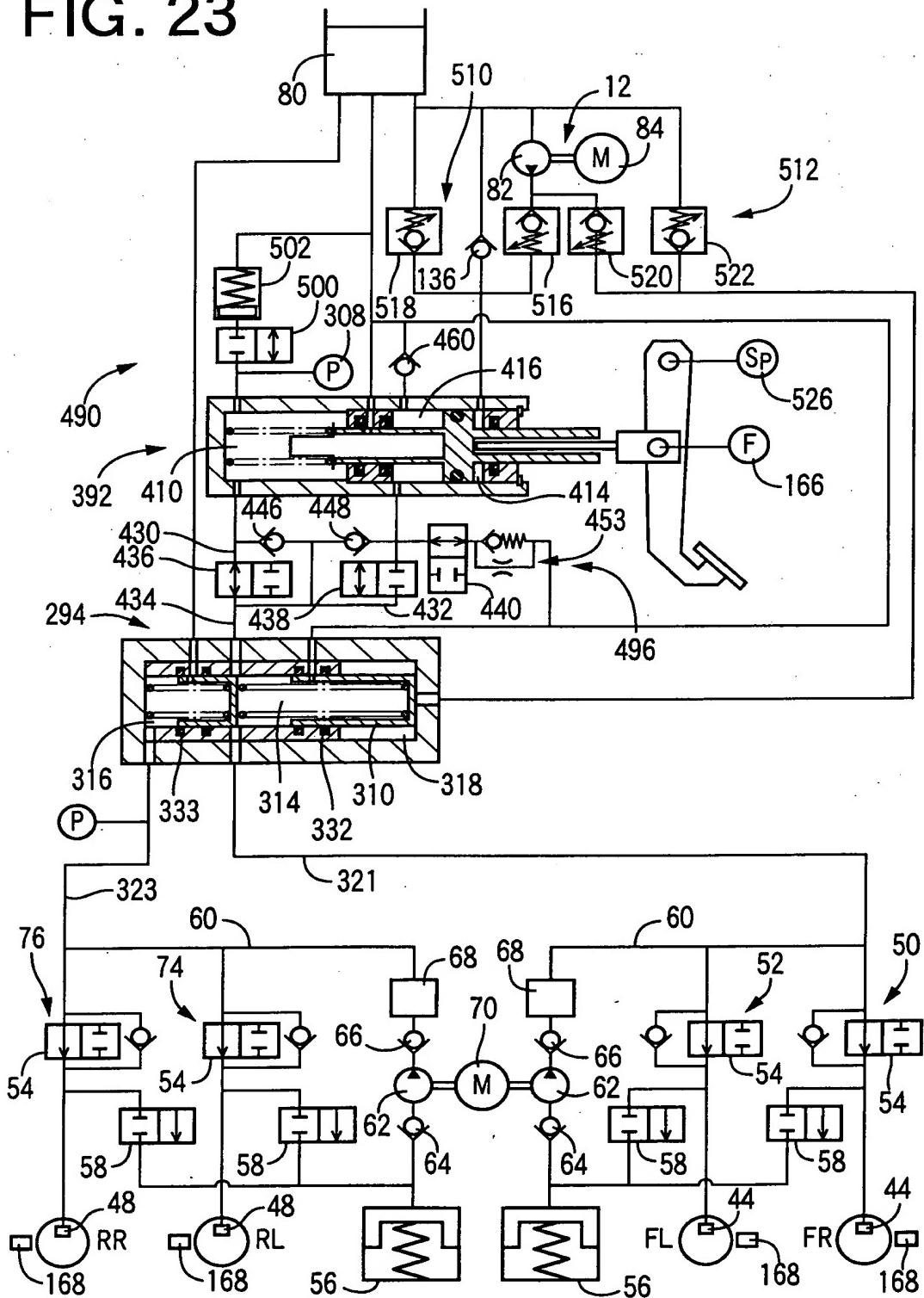
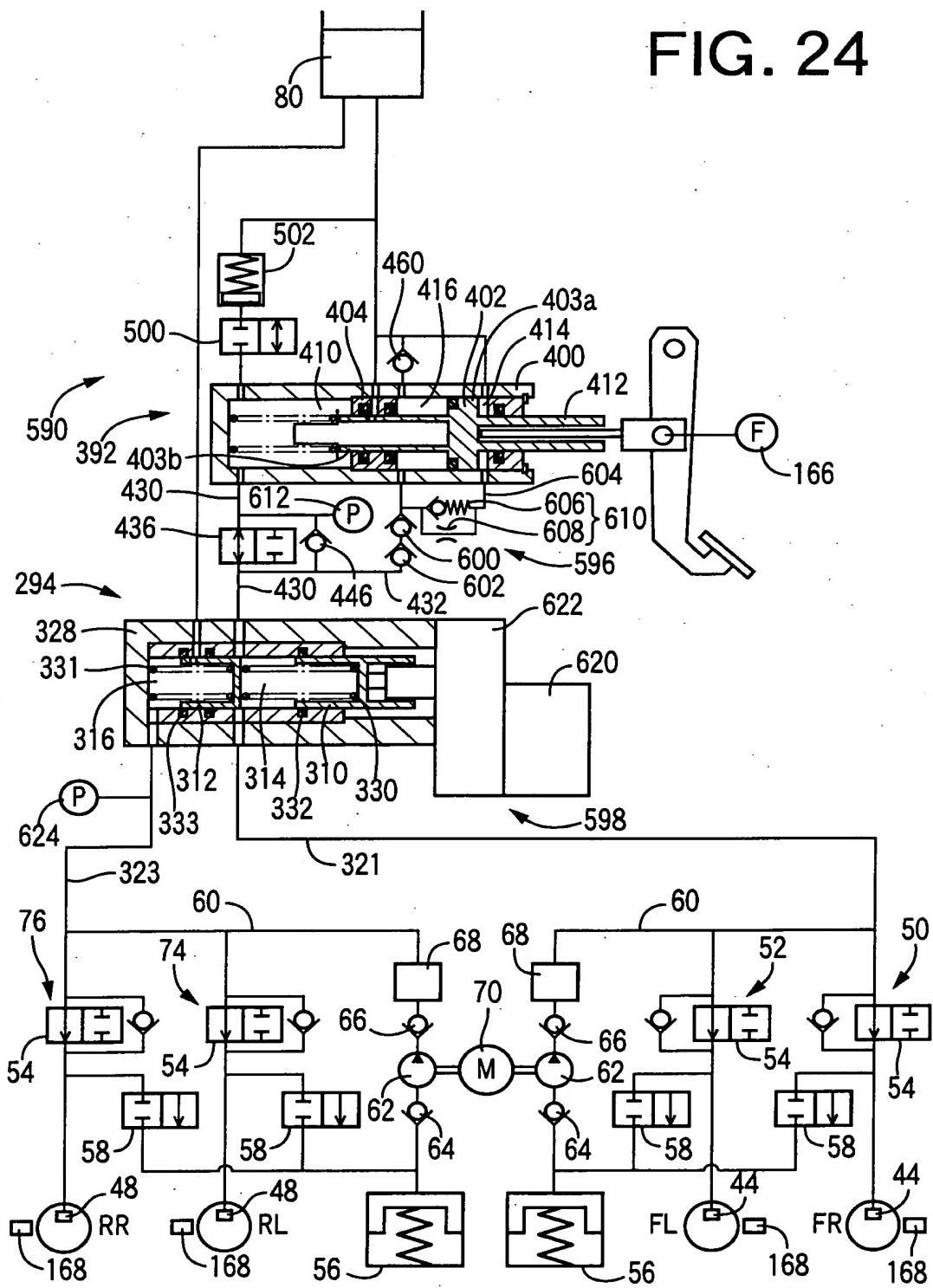


FIG. 24



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FIG. 25

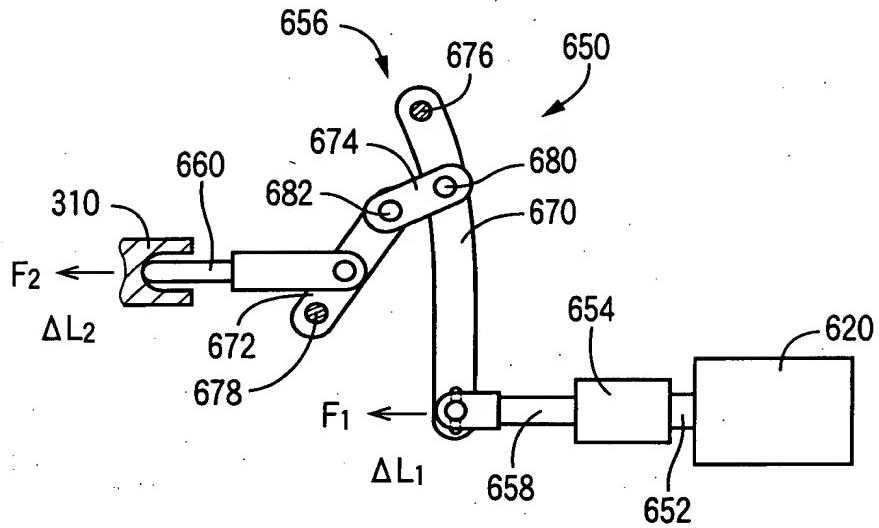


FIG. 26

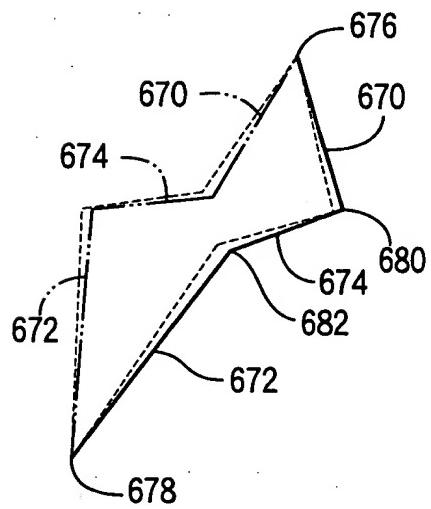


FIG. 27

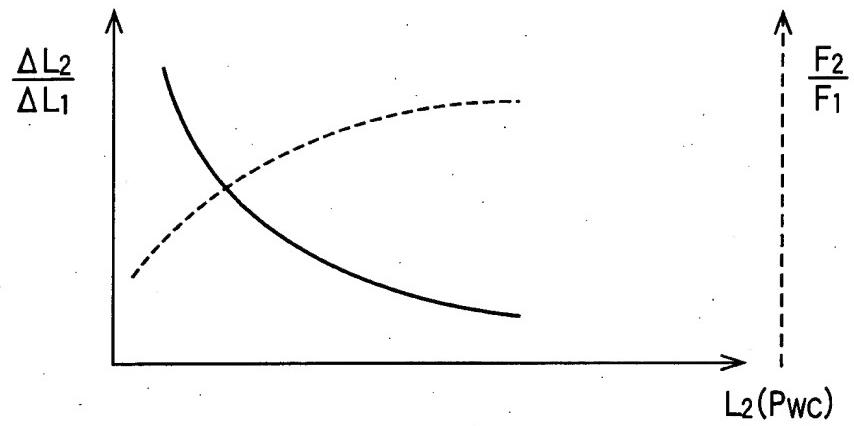


FIG. 28

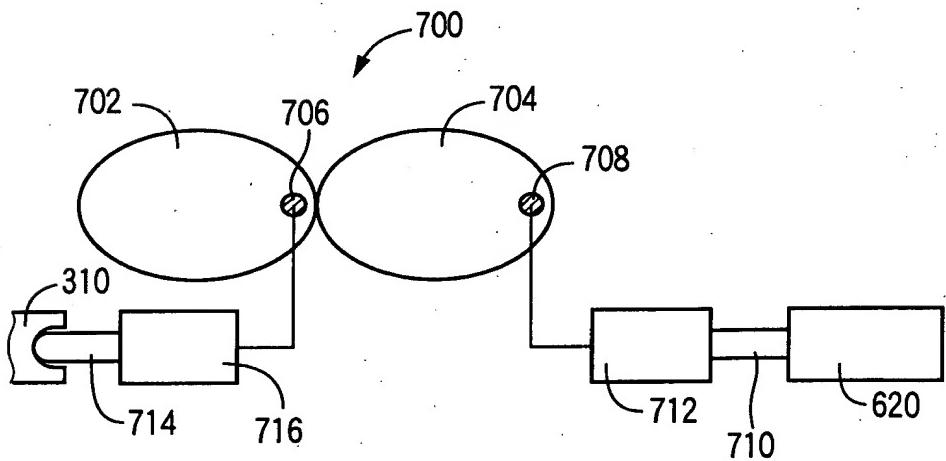


FIG. 29A

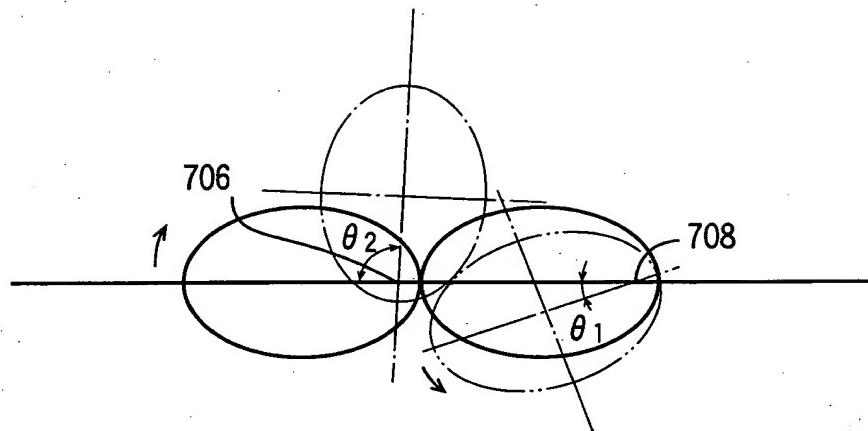


FIG. 29B

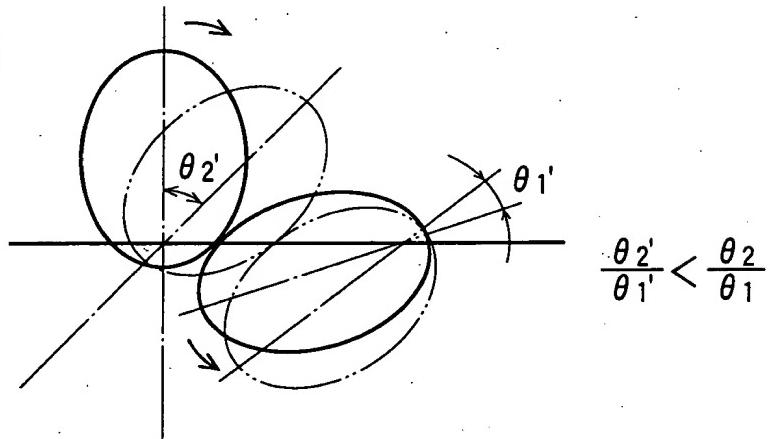
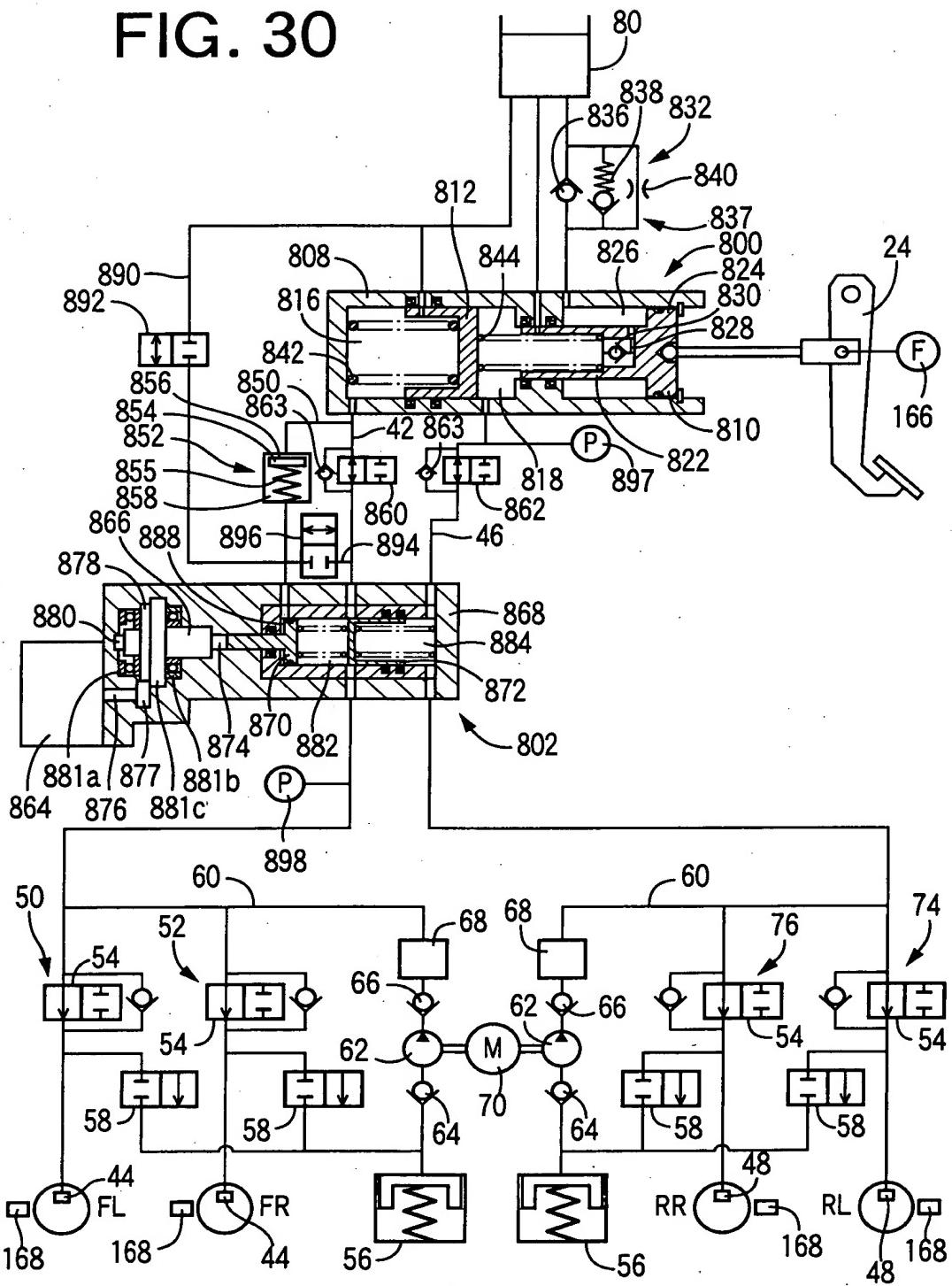


FIG. 30



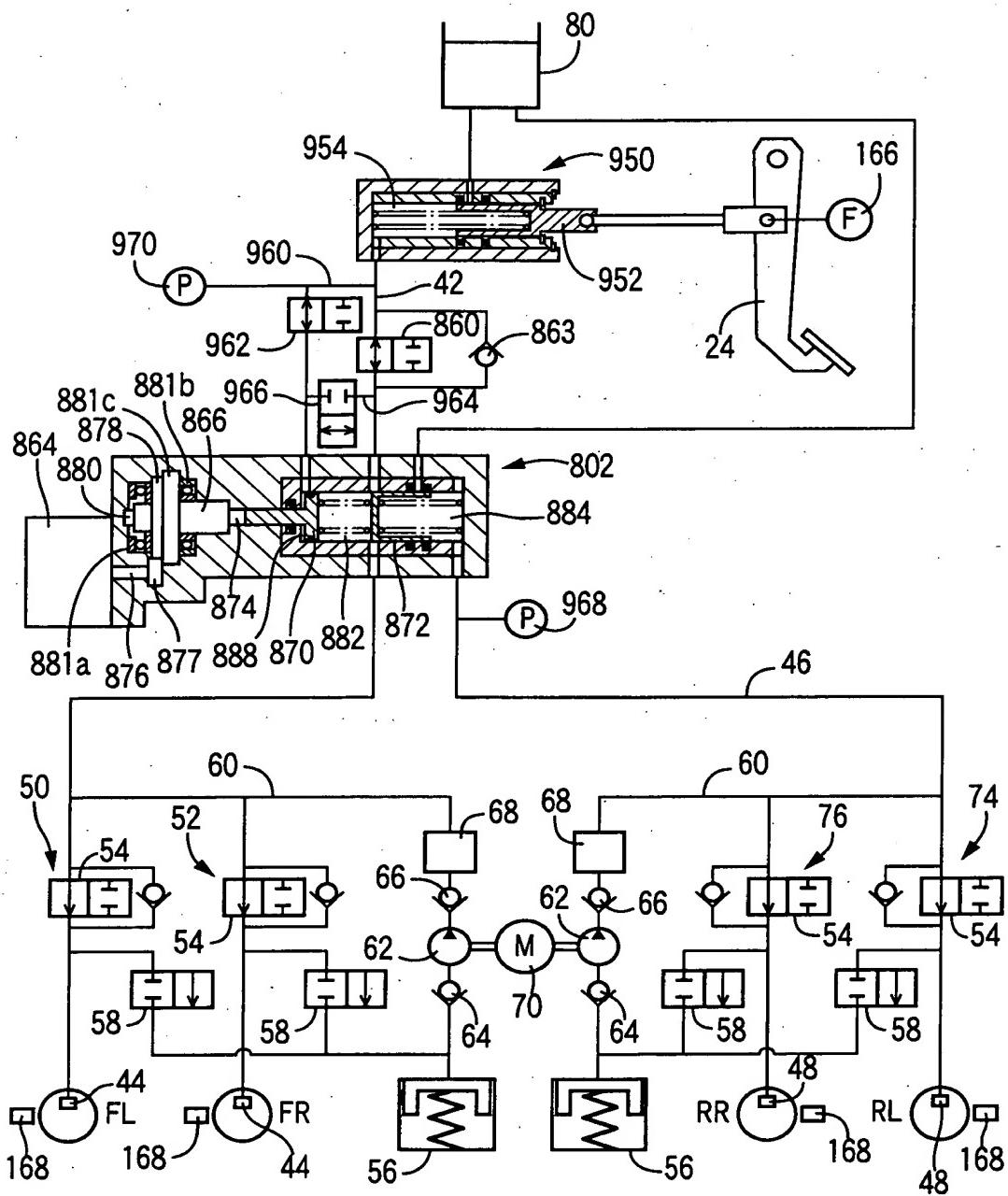
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FIG. 31

	FIRST STATE	SECOND STATE
SHUT-OFF VALVE 892	OPEN	CLOSED
SHUT-OFF VALVE 896	CLOSED	OPEN
RATE OF INCREASE OF BRAKING PRESSURE	$\Delta F_d/A_1$	$\Delta F_d/(A_1 + A_3)$

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FIG. 32



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FIG. 33

	FIRST STATE	SECOND STATE
SHUT-OFF VALVE 962	OPEN	CLOSED
SHUT-OFF VALVE 966	CLOSED	OPEN
PRESSURE INCREASE RATE BOOSTING RATIO	$\Delta F_d \cdot \gamma / (A_1 \cdot \gamma - A_3)$	$\Delta F_d / (A_1 - A_3)$

00000000000000000000000000000000